KY Valid Course List

HOW TO USE THIS DOCUMENT

This document contains a listing of course descriptions and parameters along with certifications that fit the parameters for a given course. The grade range and population information listed for each course are not absolute. Please choose the course that most closely represents the students in a given course.

> EXAMPLE
> > John Q Middle School had 5th, 6th, and 7th grade students taking a Creative Art course. This course would be linked to course number **500711: Creative Art – Comprehensive**, which shows with a recommended grade range of 6th – 12th.

The courses listed in this document are not meant to replace the course titles and course numbers already in use at the school level. Schools will link their courses in the STI Valid Course List to courses listed in this document.

Schools may have created courses that are very unique in order to meet students' needs. If a course does not meet the definition or content of one contained in this document, please use course number **909999: School Defined Course**, and code the correct content through the LEAD report.

CERTIFICATIONS

It is important to note that the certificates listed are the ones that fit *ALL* of the parameters for a specific course – there may be other certificates that can teach it with slightly more restrictive parameters.

It is very important to note that not all of the certificates listed under a specific course will meet the Highly Qualified Teacher standards as defined by The No Child Left Behind Act of 2001. Please refer to the Highly Qualified guidance documents located on the Education Professional Standards Board (EPSB) website at http://www.kyepsb.net/nclb.asp.

In addition to Highly Qualified considerations, please take note of the following information from *The Program of Studies for Kentucky Schools Primary-12* with regard to middle school courses that are offered for high school credit.

> **High School Credit Earned in Middle School**
> It is expected that most students will earn these credits during their high school years. However, local school districts may offer these courses to middle level students if the following criteria are met:
> - the content and the rigor of the course is the same as established in the *Program of Studies*
> - the students demonstrate mastery of the middle level content as specified in the *Program of Studies*
> - the district has criteria in place to make reasonable determination that the middle level student is capable of success in the high school course
> - **the middle level course is taught by teachers with either secondary or middle level certification with appropriate content specialization**

Although middle level courses list the Provisional and Standard Elementary Certificates, Grades 1-8 as allowable under the parameters of these courses, they will not meet the above requirements for courses that are offered for high school credit.

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Please contact Robin Chandler in KDE's Division of Curriculum at 502-564-2106 with any questions on content and curricula.

Please contact EPSB's Division of Certification at 502-564-4606 with any questions on credentials or permissions.

Table of Contents

Information Technology
(110000)

The Information Technology Program prepares students for careers by applying technical knowledge and skills in the rapidly growing fields of computer networking, programming, digital media, support services, and e-commerce/web design.

Information Technology - Computer Maintenance & Support Services
(110100)

Career Major-Focuses on the design of computing systems. Includes instruction in the principles of computer hardware & software components, algorithms data basis, telecommunications, etc. Any course not found under this career major/sub code may be found in another career major/sub code within this program area.

110101 - Computer Maintenance & Support Services (CompTIA, Net+, IT Essentials, etc.)

Grade Level: 9 - 12
Credits: 1-8
Description: Focuses on the design of computing systems. Includes instruction in the principles of computer hardware & software components, algorithms data basis, telecommunications, etc.
Content: Information Technology
Population: General

110102 - Help Desk

Grade Level: 9 - 12
Credits: 1
Description: Students will learn networking concepts, computer support services, industry recognized certification training, advanced web design, and career exploration while organizing a student-run Technology Help Desk.
Content: Information Technology
Population: General

110104 - Computer Support Essentials

Grade Level: 9 - 12
Credits: 1
Description: Students will learn skills necessary to perform general computer hardware and software support.
Content: Information Technology
Population: General

110152 - Special Topics, Computer Maintenance & Support Services

Grade Level: 9 - 12
Credits: 1-3
Description: Instruction related to Computer Maintenance & Support Services but not described in above courses.
Content: Information Technology
Population: General

Information Technology - Programming
(110200)

Career Major - Focuses on the general writing and implementation of generic and atomized programs to drive operating systems. Includes software design, languages, and program writing, trouble-shooting, etc. Any course not found under this career major/sub code may be found in another career major/sub code within this program area.

110201 - Programming (Java, C++, Visual Basic, etc.)

Grade Level: 9 - 12
Credits: 1-8
Description: Focuses on the general writing and implementation of generic and atomized programs to drive operating systems. Includes software design, languages, and program writing, trouble-shooting, etc.
Content: Information Technology
Population: General

110252 - Special Topics, Programming

Grade Level: 9 - 12
Credits: 1-3
Description: Instruction related to Programming but not described in above courses.
Content: Information Technology
Population: General

Information Technology – Career Major Electives
(110300)

110301 - Computer and Technology Applications

Grade Level: 9 - 12
Credits: 1
Description: Students use a computer and application software including word processing, presentation, database, spreadsheets, Internet, and email to prepare elementary documents and reports. The impact of computers on society and ethical issues are presented.
Content: Information Technology
Population: General

110311 - Advanced Computer Applications

Grade Level: 10 - 12
Credits: 1-3
Description: To provide students an advanced-level experience with practical applications through hands-on instruction. Course content will include understanding of various hardware, software (including word processing, graphing, spreadsheet, database management, desktop publishing, and electronic communications), operating systems, and care/operations.
Content: Computer and Technology Applications (Advanced)
Population: General

110399 - Leadership Dynamics - Information Technology

Grade Level: 9 - 12
Credits: 1/2 - 1
Description: This course is designed to assist students with developing skills needed to be successful leaders and responsible members of society. This student will develop personal attributes and social skills. Emphasis will be placed on interpersonal skills, team building, communication, personal development and leadership. This course will include opportunities for students to apply their knowledge.
Content: Leadership Dynamics
Population: General

Due to the large number of certificates permitted to teach this course, no certificates are listed. Please check the certificate permissions on the EPSB website to verify a teacher's permission to teach this course.

Information Technology - Computer Science
(110700)

Career Major- Focuses on computers, computing problems and solutions, and the design of computer systems and user interfaces from a scientific perspective. Includes instruction in the principles of computational Science, and computing theory; computer hardware design; computer development and programming; and applications to a variety of end-use situations. Any course not found under this career major/sub code may be found in another career major/sub code within this program area.

110701 - Advanced Placement Computer Science A

Grade Level: 10 - 12
Credits: 1
Description: This course follows the curriculum established by the College Board and prepares students to take the Advanced Placement examination in Computer Science.
Content: AP Computer Science
Population: General

110702 - Advanced Placement Computer Science AB

Grade Level: 11 - 12
Credits: 1
Description: This course follows the curriculum established by the College Board and prepares students to take the Advanced Placement examination in Computer Science.
Content: AP Computer Science
Population: General

110752 - Special Topics, Computer Science

Grade Level: 9 - 12
Credits: 1-3
Description: Instruction related to Computer Science but not described in above courses.
Content: Information Technology
Population: General

Information Technology - Web Design
(110800)

Career Major- Prepares individuals to apply HTML, XML, JavaScript and other authoring tools to the design, editing, and publishing of documents, images, graphics, sound and multimedia products on the World Wide Web. Any course not found under this career major/sub code may be found in another career major/sub code within this program area.

110802 - Web Page Design

Grade Level: 9 - 12
Credits: 1
Description: Students analyze the structure of the worldwide web, apply basic principles of web documents and HTML, and develop multi-media web pages. Course content will include the understanding of hypertext and web structures. Equipment such as scanners, digital and video cameras, and sound recording devices will be utilized through hands-on instruction.
Content: Web Page Design
Population: General

110803 - Multimedia Publishing

Grade Level: 9 - 12
Credits: 1
Description: This hands-on course applies publishing and presentation concepts through the development of sophisticated business documents and projects. These documents include, but are not limited to, brochures, manuscripts, reports, programs, catalogs, newsletters, flyers, business forms, and graphs, web pages, on-screen presentations, and video productions. Equipment such as scanners, digital cameras, video cameras, and color laser printers may be utilized in creating the documents. Formatting, editing, page layout, and design concepts are taught. Distribution ready publication standards are applied to all projects. Students will develop communication skills, problem solving techniques, cooperative learning, and interpersonal skills.
Content: Information Technology
Population: General

110852 - Special Topics, Web Design

Grade Level: 9 - 12
Credits: 1-3
Description: Instruction related to Web Design but not described in above courses.
Content: Information Technology
Population: General

Information Technology - Networking
(110900)

Career Major - Focuses on the design, implementation and management of linked systems of computers, peripherals, associated software. Includes introduction in systems and applications; systems design and analysis; networking theory and solutions; types of networks; network management and control; network and flow optimization; security; configuring; and troubleshooting. Any course not found under this career major/sub code may be found in another career major/sub code within this program area.

110901 - Networking (Cisco, Net+, Novell, Nortel, etc.)

Grade Level: 9 - 12
Credits: 1-8
Description: Focuses on the design, implementation and management of linked systems of computers, peripherals, associated software. Includes introduction in systems and applications; systems design and analysis; networking theory and solutions; types of networks; network management and control; network and flow optimization; security; configuring; and troubleshooting. Any course not found under this career major/sub code may be found in another career major/sub code within this program area.
Content: Information Technology
Population: General

110952 - Special Topics, Networking

Grade Level: 9 - 12
Credits: 1-3
Description: Instruction related to Networking but not described in above courses.
Content: Information Technology
Population: General